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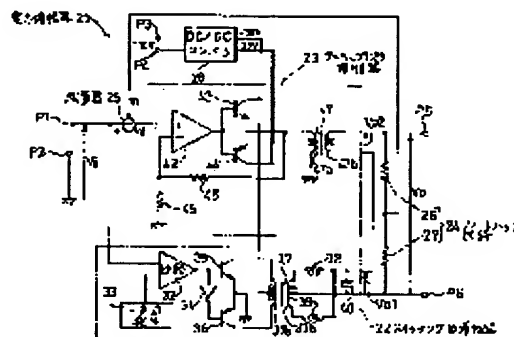
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(54) POWER AMPLIFIER

(57)Abstract:

PROBLEM TO BE SOLVED: To attain a high efficiency of the power amplifier to which a highly accurate amplification such as amplification of a transformer output received by a protection relay in a power distribution system is a requirement.

SOLUTION: Most power of an input voltage V_i of an input signal is amplified by a switching amplifier 22 and a feedback circuit 24 detects an error caused by the switching amplifier 22, a subtractor 25 subtracts the error from the input voltage V_i , and the result difference voltage V_d is given to a push-pull amplifier 23, and output voltages V_{o1} , V_{o2} of the two amplifiers 22, 23 are added and the sum is outputted. Thus, TRs 35, 36 are operated in a saturation region and the high efficiency switching amplifier 22 amplifies most power and TRs 43, 44 are operated in a non-saturation region and the push-pull amplifier 23 capable of high accuracy amplification is used to amplify the remaining power. Thus, high accuracy and high efficiency are attained.



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